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NONPROVISIONAL PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Attorney Docket No.: 118061

Date: December 12, 2003

Customer Number: 25944

MAIL STOP PATENT APPLICATION
NONPROVISIONAL APPLICATION TRANSMITTAL
RULE §1.53(b)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

10733472
031088 US.PTO
121203

Sir:

Transmitted herewith for filing under 37 C.F.R. §1.53(b) is the nonprovisional patent application

For (Title): COOLER FOR COOLING BOTH SIDES OF SEMICONDUCTOR DEVICE

By (Inventors): Yasuyuki SAKAI

Formal drawings (Figs. 1-14; 11 sheets) are attached.
 Use Figure _____ for front page of Publication.

A Declaration and Power of Attorney is filed herewith.

This application claims benefit of Provisional Application No. _____ filed _____.
(A Preliminary Amendment is attached to reflect this claim in the Specification if not already present.)

This patent application is assigned to DENSO CORPORATION.
 The executed Assignment is filed herewith.

An Information Disclosure Statement is filed herewith.
Entitlement to small entity status is hereby asserted.

A Preliminary Amendment is filed herewith.

Priority of foreign application No. 2002-364337 filed December 16, 2002 in Japan and No. 2003-385761 filed November 14, 2003 in Japan are claimed (35 U.S.C. §119).
 A certified copy of the above corresponding foreign application(s) is filed herewith.

This application is NOT to be published under 35 U.S.C. 122(b). The undersigned attorney or agent hereby certifies that the invention disclosed in this application has not and will not be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication of applications 18 months after filing.

The filing fee is calculated below:

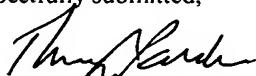
**CLAIMS IN THE APPLICATION AFTER ENTRY OF
ANY PRELIMINARY AMENDMENT NOTED ABOVE**

FOR:	NO. FILED	NO. EXTRA
BASIC FEE		
TOTAL CLAIMS	9 - 20	= 0*
INDEP CLAIMS	1 - 3	= 0*
<input type="checkbox"/> MULTIPLE DEPENDENT CLAIMS PRESENTED		

* If the difference is less than zero, enter "0".

Check No. 149218 in the amount of \$770.00 to cover the filing fee is attached. Except as otherwise noted herein, the Commissioner is hereby authorized to charge any other fees that may be required to complete this filing, or to credit any overpayment, to Deposit Account No. 15-0461. Two duplicate copies of this sheet are attached.

Respectfully submitted,



James A. Oliff
Registration No. 27,075

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Registration No. 30,411

SMALL ENTITY		OTHER THAN A SMALL ENTITY	
RATE	Fee	OR	Rate
	\$ 385	OR	
x 9 =	\$	OR	
x 43 =	\$	OR	x 18 \$
+ 145 =	\$	OR	x 86 \$
TOTAL	\$	OR	+ 290 \$
		OR	TOTAL \$ 770